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CATALOGUE OF LICHENS COLLECTED IN FLORIDA IN 1885--WITH NOTES.

BY W. W. CALKINS, CHICAGO, ILLINOIS.

The following species were studied and determined mostly by H. Willey, Esq., which is a sufficient guarantee of careful and correct work. This quite respectable list, the result of a very little time spent by me in conections with other pursuits, shows plainly the richness of the field in *Lichens*. Florida furnishes novelties in many departments of natural history, and no less so in her *Lichen* flora, which however, has not, as yet, been made a special study by any one. When fully explored, we may expect to find a curious commingling of northern, southern and tropical forms, many finding here, however, their limits geographically. The question of their distribution is an interesting one yet to be solved, and while the limits are plainly definable as to the *Phanerogamia* of Florida, we know next to nothing of the lower orders in this connection. With this view, the list will serve as a basis for future labor.

1. USNEA BARBATA (L.) Fr.—Very common on living *Cypress* trees, in low, damp grounds.

2. THELOSCHISTES CONCOLOR (Dicks.)—Abundant on oak and other trees.

3. PARMELIA PERFORATA (Jacq.) Ach.—Very abundant on oaks.

4. PARMELIA TILIACEA (Hoff.) Flœrk.—Common on *Hamamelis*.

5. STICTA AURATA (Sm.) Ach.—On fallen trees among moss. Rare.

6. PHYSMA LURIDUM (Mont.)—Very fine. On living *Andromeda* shrubs, near water, less often on dead wood.

7. PANNARIA STELLATA (Tuck.) Nyl.—Rare on living *Magnolia*.

8. PANNARIA MOLYBDÆA (Pers.) Tuck.—Common on *Andromeda* in low grounds along with No. 6.

9. COLLEMA NIGRESCENS (Huds.) Ach.—Abundant on living *Andromeda*.

10. COLLEMA AGGREGATUM, Nyl.—Common along with No. 9.

11. LEPTOGIUM TREMELLOIDES (L. fil) Fr.—Abundant on living *Magnolia*.

12. LECANORA SUBFUSCA (L.) Ach.—On *Castanea* and other trees.

13. LECANORA SUBFUSCA, *var. distans*, Ach.—Common.

14. LECANORA ATRA (Huds.) Ach.—Common.

15. LECANORA VARIA (Ehrh.) Nyl.—Abundant on oaks.

16. LECANORA VARIA, *var*, *Cupressi*, Tuck.—Rare.

17. LECANORA PUNICEA, Ach.—Abundant on various trees. Disks bright scarlet.

18. LECANORA FLAVIDO-PALLENS, Nyl.—A Cuban species. Abundant.

19. PERTUSARIA VELATA (Turn.) Nyl.—Abundant.

20. PERTUSARIA MULTIPUNCTA (Turn.) Nyl.—Common on *Quercus*.

21. Pertusaria leioplaca, Ach.—Abundant on *Magnolia.*

22. Pertusaria communis, DC.—On *Quercus.*

23. Thelotrema Domingense (Fee.) Tuckerm.—On elms and hickory trees. Abundant and fine.

24. Thelotrema glaucescens, Nyl.—On a fallen tree. Rare.

25. Gryostomum scyphuliferum (Ach.) Fr.—Common on various trees.

26. Cladonia mitrula, Tuckerum.—On earth and logs. Common.

27. Cladonia fimbriata (L.) Tr.—Abundant on rotten logs.

28. Cladonia pulchella, Schw.—Abundant along with No. 27.

29. Cladonia rangiferina, Hoffm.—Very common on earth in damp woods.

30. Cladonia Santensis, Tuckerm.—On old logs. Rare.

31. Graphis Poitæoides, Nyl., *ined.*—On oaks. Rare.

32. Graphis nitidescens, Nyl., *ined.*—On *Quercus aquatica.*

33. Graphis Afzelii, Ach.—Very abundant on various trees.

34. Graphis scripta, Ach.—Common on various trees.

35. Graphis scripta, *var. assimilis,* Nyl.—Common.

36. Graphis scripta, *var. sophistica,* Nyl.—Not common.

37. Graphis virginalis, Tuck., *indt.*—On small oaks. Common.

38. Graphis Eristathiana, Tuck., *ined.*—Common on oaks.

39. Graphis elegans, Ach.—Rare. On holly.

40. Graphis sculpturata, Ach.—Rare.

41. Graphis dendritica, Ach.—On *Quercus aquatica.* Common.

42. Arthonia cinnabarrina, Wallr.—On *Magnolia.*

43. Arthonia gregarina, Willey, *ined.*—Rare.

44. Arthonia ochropila, Nyl.—On oak.

45. Arthonia tædescens, Nyl.—On holly. Common.

46. Arthonia quintaria, Nyl., *ined.*—On *Ilex.* Very fine.

47. Anthonia ———? n. sp.—On *Ilex,* and undoubtedly new. Sent to Dr. Nylander.

48. Trypethelium virens, Tuck.—Common.

49. Trypethelium cruentum, Mont.—Common on various trees.

50. Trypethelium scoria, Fee.—Abundant on *Myrica.*

51. Trypethelium catervarium, Fee.—Rare.

52. Trypethelium Carolinianum, Fee.—Common.

53. Trypethelium scorites, Tuck.—Abundant on holly.

54. Heterothecium leucoxanthum, Spreng.—Rather abundant on various trees.

55. Heterothecium Augustinii, Tuck., *indt.*—On leaves of the Saw palmetto.

56. Heterothecium tuberculosum, *var. pachycarpum,* Flot.—On oaks. Common.

57. Pyrenula septata, Nyl.—Rare on oaks.

58. Pyrenula punctiformis, Ach. On *Myrica* in swamps.

59. Pyrenula punctella, Nyl.—Rare on holly.

60. Pyrenula Cinchonæ, Ach.—On holly. Rare.

61. Pyrenula subprostans, Nyl.—Abundant on oaks.

62. PYRENULA NITIDA, Ach.—Common on oaks.
63. PYRENULA THELENA, Tuck.—On *Quercus virens*. Very fine.
64. PYRENULA AGGREGATA, Fee.—Very common on holly.
65. BIATORA RUSSULA, Mont.—On oaks.
66. BIATORA ATRO-GRISEA, Schw.—Rare on oaks.
67. BIATORA EXIGUA, Fr.—Rare on oaks.
68. BIATORA HYPERNULA, Nyl.
69. MYCOPERUM SPARSELLUM, Nyl.—On holly. Tropical also.
70. OPEGRAPHA VULGATA, Ach.—Common on oaks.
71. STRIGULA COMPLANATA, Fee.—On leaves of *Osmanthus*.
72. BUELLIA PARASEMA, Ach.—Very common on oaks.
73. GLYPHIS ACHARIANA, Tuck.—On oaks.

CHARLES CHRISTOPHER FROST.

BY WM. R. DUDLEY, CORNELL UNIVERSITY.

B. at Brattleboro', Vt., Nov. 11, 1805.
D. at Brattleboro', Vt., Mar. 16, 1880.

The pioneers in cryptogamic botany, in America, have been, almost without exception, professional or business men, who pursued their favorite study as an avocation. In them was developed the scientific spirit, probably in greater purity than we can ever expect to see it again. The agricultural interests had become neither sufficiently developed nor well enough organized to call on these men for a practical application of their knowledge; and, as a rule, they were eminently modest men, without even the ordinary desire for fame. The study was pursued by them, therefore, purely for a love of the knowledge gained and from an intellectual passion for investigation. Certainly this characterization must apply to the life of Mr. C. C. Frost, who described many new species of New England fungi, and whose work was always thorough, conscientious and highly respected by those who could understand and appreciate its value, viz.: his learned friends and correspondents on both sides of the Atlantic. Still, he wrote comparatively little; offers of professorships and other honors, coming altogether unsought, were declined; and he adhered throughout a long life to the trade and business to which he was bred.

Mr. Frost was of an honorable New England parentage. His father, James Frost, coming from Massachusetts when quite young, opened the first shoemaker's shop in Brattleboro'. The mother of Mr. C. C. Frost was Elizabeth, daughter of Col. Stewart, an officer in the Revolutionary war. What is now a large and flourishing town of exceptional beauty, provided with a library and fine school buildings, was, in the early part of the present century, but a country village, which had grown up near the site of the colonial Fort Dummer, and the ordinary district school furnished the only means of public instruction. We may suppose young Frost spent his winters in acquiring whatever he could from this source.